

Minutes of the Meeting of the IUPAP Commission C11

Uppsala, July 1, 2005

22nd International Symposium on Lepton-Photon Interactions at High Energy.

Present: V. Lüth (Chairperson), M. Turala (Secretary), G. Herten, E. Iarocci, T. Huang, A. Sissakian, G. Wormser, T. Yamanaka, E. Zas (C4), D-O. Riska (C12)

Guests: H. Chen (IHEP Beijing), J. Dorfman (ICFA), T. Ekelof (Univ. Uppsala), G. Kozlov (JINR Dubna), R. Rubinstein (ICFA), Dongchul Son (Kyunkpook Nat. Univ.), Dongtee Kim (Kyunkpook Nat. Univ.), A.J. Stewart (Univ. Pennsylvania)

Apologies: A. Smith (Vice-Chair), C. Fosco, R. Godbole, S. Stapnes, M. Zeller, A. McDonald (C19).

Agenda

1. Welcome to C11 members and guests.
2. Adoption of Agenda
3. Approval of Minutes of the C11 Meeting at Beijing
4. Chair Report V. Lüth
5. Report from ICFA J. Dorfman
6. Conferences oversight
 - Report on the present conference (LP05) T. Ekelof
 - Report of the ICHEP04 (Beijing) H.S. Chen
 - Preparations for ICHEP06 (Moscow) A. Sissakian
 - Report on LP07 (Daegu) Dongchul Son
 - Report on ICHEP08 (Philadelphia) A.J. Stewart
 - Info concerning future LP and ICHEP proposals V. Lüth
7. Reports from C4, C12 and C19
 - Report from C4 E. Zas
 - Report from C12 D-O. Riska
 - Report from C19 tbc

Executive session (C11 members only)

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| 8. C11 membership | V. Lüth |
| 9. Report from the Authorship Committee | V. Lüth |
| 10. Any Other Business | |

The Agenda and all presentations and reports were distributed to the participants ahead of the meeting.

1. V. Lüth welcomed all members and guests, and she asked to introduce each other.

2. The agenda of the meeting was agreed as proposed.

3. The draft minutes of the C11 meeting at Beijing were approved without changes.

4. Chairperson's report

Vera Lüth reminded the structure of the international science organization (International Council of Science – ICSU and International Union of Pure and Applied Physics - IUPAP) and position of C11 in this framework. She presented the missions of ICSU and IUPAP and informed about recent and forthcoming IUPAP events:

- “Physics for Tomorrow” (Paris, January 2005) – launch of World Year of Physics
- 2nd World Int. Conf. on Women in Physics (Rio de Janeiro, May 2005)
- World Conf. on Physics and Sustainable Development (Durban, Oct 31.-Nov 2, 2005)
- IUPAP General Assembly and Meeting of Council Chairs (Capetown, Oct 26-28, 2005).

Then she presented membership of IUPAP and C11 and reminded about specific guidelines on C11 membership, terms and regional distribution, particularly in view of the forthcoming elections of new C11 members – this matter was addressed later at the closed session of the meeting. Separate part of her report was devoted to an overview of C11 activities:

- oversight and sponsorship of two international conferences (LP and ICHEP in alternate years),
- guidelines for meetings and assistance in international contacts (recommendations on LP and ICHEP formats),

- working group on authorship in large HEP collaborations,
- two C11 “sub-committees” (“working groups”):
 - ICFA – International Committee for Future Accelerators (chaired by J. Dorfan),
 - PANAGIC – Particle and Nuclear Astrophysics and Gravitation Committee (chaired by A. Bettini)

The matter of international conferences was discussed in some depth, in particular the composition of the advisory committees (involve more younger active physicists), their formats (more shorter talks on specific topics, rather than exclusively reviews, parallel and poster sessions) and shrinking participation (how to attract more younger scientists).

Problem with USA/Japan/Europe visas was a separate issue. Apparently the situation with US visas is improving (applicants do not need to deposit their passports at the consulates, leaders of major US science organizations filed a 2nd petition asking to streamline the US visa procedures) – and as a result IUPAP will again sponsor conferences in the USA. However, recently a problem has arisen with travel of Indian physicists to KEK.

In view of this last comment Taku Yamanaka informed, that Yves Petrof (IUPAP chair) wrote a complaint letter to the Japanese ministry, and the Japanese foreign minister recently visited India and that the matter was discussed, therefore C11 should wait And hope for improvements.

V. Luth noticed that several IUPAP recommendations have not been implemented by C11 in the past; they include:

- awarding medals/ prizes for outstanding achievements,
- publishing newsletters,
- maintaining liaisons with other committees.

In the following discussion Guy Wormser suggested to award a prize for the best posters of the conference – the idea is attractive, however difficult to implement on very short notice. He also reported that in relation to the “Year of Physics” French physicists suggest to prepare, print and distribute to every high school a poster of particles and forces (a present design could be seen at <http://sfp.in2p3.fr/affiche>).

Recommendations to the future C11 committee:

Award medals/ prizes for outstanding scientific achievements.

Nominate a C11 liaison to C4 committee.

Consider publication of a C11 newsletter.

5. Report from ICFA

The activities of ICFA were presented by the ICFA chair, Jonathan Dorfan; in addition a written report on “Activities of ICFA, August 2004 – July 2005”, prepared by R. Rubinstein, ICFA secretary, was distributed.

Last ten years ICFA effort focused on the Linear Collider, and how to make it a global facility. Particle physicists from Asia, Europe and North America have reached conclusion that a 500 GeV linear collider, upgradeable to 1 TeV, is the priority for the field, and this has been endorsed by international bodies such as the QECD Global Science Forum. In order to coordinate and support linear collider activities, ICFA set up the International Collider Steering Committee (ILCSC).

In 2004, the International Technology Recommendation Panel (ITRP), formed by ICFA recommended a superconducting option, which has been accepted. In March 2005 Barry Barish was appointed a director of the linear collider R&D and design effort (called the Global Design Effort – GDE). Three regional GDE directors were appointed (F. Takasaki (Asia), B. Foster (Europe), G. Dugan (North America) as regional GDE directors. There is an expectation to complete a baseline ILC configuration document by the end of 2005 and a Conceptual Design Report (CDR) by the end of 2006.

In May 2005 also a Memorandum of Understanding (MoU) for GDE has been signed by eleven “charter” members – other institutions could join. Also a group of funding agencies from countries active in particle physics has been formed (Funding Agencies for a Linear Collider - FALC), to periodically discuss linear collider activities.

Every three years an ICFA seminar is held to provide an opportunity for an international exchange of information on plans for future facilities in the field of particle physics. This meeting attracts

150-200 attendees (including some governmental science officials) . The next seminar will be held in Daegu, Korea, in Sept. 28 -Oct.1, 2005. There will be a presentation on the ICFA activities at the IUPAP General Assembly in Capetown. ICFA is beginning to discuss its role for the next 10 years– its activities may focus less on accelerators and possibly more joint activities with astrophysics and other sciences.

ICFA follows also activities of several its panels and working groups (InterAction - the particle physics communication group, Worldwide Study of the Physics and Detectors for a Future e+e- Linear Collider, Instrumentation, Beam Dynamics, and Advanced and Novel Accelerator Panels, Committee on Interregional Connectivity).

The term of the current chair of ICFA ends 31 Dec. 2005; the term of the ILCSC chair, ends in June 2005. An ICFA subcommittee will make recommendations (At the ICFA meeting in Uppsala, Albrecht Wagner, Director of DESY, was nominated as the future ICFA chair, Shin-ichi Kurokawa of KEK will replace M. Tigner as chair of the ILCSC).

C11 thanked J. Dorfan for his outstanding service to the community as the chair of ICFA.

6. Conferences oversight

Report on LP05 (Uppsala)

Tord Ekelof gave a status report on the ongoing Lepton-Photon Symposium (www.uu.se/lp2005). He briefly reported on the preparation for the conference, its committees, scientific program, organization, participation and budget.

There are about 400 participants from 36 countries, among them 114 from US and 49 from Sweden. About 450 contributed papers and 41 posters have been submitted (very few on astrophysics and cosmology). There are 46 plenary talks scheduled, including public lecture by a recent Nobel prize winner, F. Wilczek. The conference fee (320 Euro) has been waived for 21 persons from 11 less developed countries (in 4 cases also housing support was provided).

Symposium is organized in collaboration with the Uppsala University Conference Bureau

Akademikonferens. Wireless connections are available in the lecture hall; in addition to 9 PCs, 11 Mac's and 17 internet cables. All talks are broadcasted with VRVS (with a capacity of 100 lines) and video recorded (accessible on the web and eventually possibly on a DVD). Proceedings will be published by World Scientific (a hard copy with CD to each delegate), and will also be available via open access at www.uu.se/lp2005.

The symposium is sponsored by IUPAP, Swedish Royal Academy of Sciences and Swedish Research Council, City of Uppsala and Elsevier.

In the discussion concern was expressed about rather limited participation, in spite of about 1200 invitation sent world wide. Perhaps the timing was not optimal – some universities are still in their academic year. A lack of special “young physicists” meetings - rather successful at LP03, was also noticed. It was pointed out that the reasons for the low number of participants should be further examined – perhaps those who never responded should be contacted and asked for comments? perhaps the International Advisory Committee could provide useful comments?

It was mentioned that the organization of large conferences by smaller universities, like Uppsala, not only by big laboratories was a welcome change. It was found rather “healthy” for the physics community and it should be remembered and tried again in the future.

Recommendation to the future LP organizers:

Following the example of LP03 at Fermilab, organize a meeting of “young physicists” at the conference, arrange for an extended poster session and offer partial waivers of the registration fee.

Report on ICHEP04 (Beijing)

Chen HeSheng reported on the ICHEP04 conference, which was held on 16-22 August 2004 in Beijing (<http://ichep04.ihep.ac.cn/>). He reported on the conference venue, committees, attendance, scientific program, budget and proceedings.

About 850 people registered, however actually only 730 showed up (among them 527 from abroad, the rest being from China).

Concerning the scientific program (regarding issues such as the selection of parallel session conveners, plenary session talks, and time allocation to the sessions and the plenary talks.), in general the input from members of the Scientific Program Committee had been very good, but in many cases replies came too late. Topics for plenary sessions had been selected on the basis of the most recent developments in the field with some considerations given to regional balance. The responsibilities for selecting talks for parallel sessions had been largely given to the session conveners. There were 13 parallel sessions (with about 300 contributions) and 26 plenary talks; 19 laboratories joined the lab poster session.

The budget of the conference was balanced:

- the total income was equal to 245 700 USD (about 200 000 USD from the fees, and about 45 700 USD from supporting institutions: IUPAP, CAS, NSFC, CPS),
- the total cost was about 250 700 USD; small deficit has been covered by IHEP Beijing (who in addition contributed manpower, postage, office supply for about 12 000 USD).

The proceedings were contracted with World Scientific Publishing, Singapore, and now are being distributed.

In general the conference was very successful and C11 congratulated and thanked to the organizers. However the limited participation created a real problem for the organizers; it was pointed out that several reminders need to be sent ahead of the conferences.

Recommendation to the organizers of future LP and ICHEP conferences:

To improve the conference participation, sent several reminders to the physics community ahead of the meetings. Use the country coordinators as contact.

Preparations for ICHEP06 in Moscow

Aleksey Sissakian reported on the preparations for ICHEP06, which will be held in Moscow on July 26 – August 2 2006 (<http://ichep06.jinr.ru/>). The conference is organized jointly by the Russian Academy of Sciences, the Ministry of Education and Science of Russian Federation, Federal Agency of Science and Innovation of Russian Federation, the Atomic Energy Agency of Russian Federation, Moscow State University and Joint Institute for Nuclear Research in Dubna

(host laboratory).

The conference venue, committees and preliminary program, accommodations, organization, budget and schedule have been briefly presented, and the poster of the conference is ready. In the past there was some concern about the composition of the International Advisory and Program Committees, however recently it has been a few younger and more active scientists, among them two three women have been added.

In the following discussion V. Lüth proposed a special session on “accelerators, detectors and grid”. M. Turala suggested to fix the program rather soon, to be able to book good speakers. E. Iarocci expressed concern about the distance from the conference venue to the cheaper hotels and dormitories.

A. Sissakian and G. Kozlov presented a very nice poster of ICHEP2006

Preparations for LP07 in Daegu (Korea)

Dongschul Son reported on the preparations for the 23rd Lepton-Photon Symposium to be held in Daegu, Korea, August 13-18, 2007.

The conference will take place at the Daegu Exhibition & Convention Center (EXCO). The specifications for the Convention Hall (59 x 65 m², with 2400 seats – can be partitioned) and in addition several smaller conference rooms (7 + 3 rooms) are available. The accommodations were listed (they vary from 5* hotels – at the cost of about 120 USD, to dormitories and Korean style hotels – at about 20-30 USD/ night); about 700 rooms have been already blocked for LP07. The plan of Daegu city with location of the conference venue and accommodations was presented – it was noticed that hotels are in some distance from EXCO, however the organizers will provide transportation. An overview of the access to Daegu city, as well as of the local transportation was given.

The conference will be hosted by the Center for High Energy Physics (CHEP), Center for Quantum Space-Time (CQUeST) and Korean Physical Society. It will be sponsored by Korean Physical Society and Ministry of Science and Technology, KOSEF, Daegu City, and Kyungpook

National University. The composition of the Local Organizing Committee was presented; the proposal for the membership of the International Advisory/ Program Committees will follow C11 guidelines (to involve more young physicists, active in the field, including women). At the end preliminary timetable was presented.

V. Lüth expressed concern about relatively small Korean HEP community, who is behind this important conference; she suggested cooperate with experienced scientists in neighboring countries (China, Japan) as well as overseas Korean particle physicists on the preparation of the LP07 scientific program. This suggestion was well received by D. Son.

Proposals for ICHEP2008 in Philadelphia

A letter of intent to hold ICHEP08 in Philadelphia was submitted to C11 in 2004 and the draft proposal was presented at C11 meeting in Beijing. At the current C11 meeting A.J. Stewart Smith presented a more concrete and detailed proposal.

The Philadelphia HEP community is strong and has good contacts with astrophysics: Scientists are involved in the two Fermilab Collider experiments, both B-factory experiments, ATLAS and CMS experiments, accelerator and non-accelerator neutrino experiments, astrophysics and cosmology, phenomenological and formal theory. The University of Pennsylvania, Princeton University and Institute for Advanced Study support the proposal; the Organizing Committee will be chaired by N.S. Lockyer of the University of Pennsylvania and A.J.S. Smith of Princeton University.

The suggested date for the conference is: 30 July – August 5, 2008. The conference venue – Perelman Quad at the University of Pennsylvania, has enough capacity to accommodate ICHEP 07 (with Irvine Auditorium for 1260 seats and several others with 200-340 seats). A.J.S. Smith showed maps of the University District, City Center West and Museum District. Lodging should not be a problem with several hotels and dormitories on Campus (a verbal commitment has been already secured) and several others hotels are in walking distance.

The Pennsylvania University Conference Services have a long record of conference organization (e.g. 2002 IEEE for 1200 attendees, medical conferences for several thousand attendees). An interesting sightseeing and excursion program will complement the scientific one.

The proposal to hold the ICHEP08 conference at Philadelphia has been approved by C11.

Action on V. Lüth:

Send a letter to the proponents of ICHEP08 in Philadelphia, that their proposal has been discussed and approved by C11.

Future Conferences

V. Lüth listed requests for future LP and ICHEP conferences:

- from A. Wagner, to hold LP09 at DESY (Hamburg), at the end of HERA,
- from R. Godbole, to hold LP09 in India (Mumbai Thata Institute, or Bangladore),
- from H. Hoorani, to hold one of large HEP conferences in Pakistan (Islamabad),
- from G. Wormser, to hold ICHEP10 in France
- the University of Heidelberg to hold one of the future large HEP conferences.

A short discussion on the format of these conferences followed: some sessions too short, some too long..., active poster sessions, “young physicists sessions”, etc.) and on the participation, which is decreasing (is it a collision of LP with EPS? – rather not, the Rome symposium in 2001 was well attended...).

The consideration of future C11 sponsored conferences (beyond 2008) was deferred to the next C11 meeting, with new membership.

7. Reports form other commissions

Cosmic Rays (C4)

Enrique Zas presented composition and activities of the C4 Commission.

The C4 Committee has 13 full members and 3 associate members; it is chaired by K.-P. Wenzel; there is no liaison member from C11 (!). C4 meets “ad personam” every 2 years – in the meantime it acts via communication means.

The activities include:

- Advising International Cosmic Ray Conferences (ICRC)

These are biannual events; the next conferences are: ICRC2005 (2-8 Aug.) in Pune (India), ICRC 2007 (late Aug.) in Merida (Mexico). C4 acts as an International Advisory Committee.

- Endorsing conferences

ICRC conferences (2003 in Tsukuba, 2005 in Pune); TAUP Series (Astroparticles & Underground; 2003 in Seattle, 2005 in Zaragoza); future: ICRC 2007 in Merida, European Cosmic Ray Symposium, Very High Energy Cosmic Ray Interaction, possibly also Neutrino 2006,

- Awards

Current awards include (Duggal Award” (for outstanding young scientists), “O’Ceallaigh medal” (for lifelong contributions to Cosmic Ray Physics) and “Yodh price” (for important and pioneering contributions to Cosmic Rays).

- Publications

C4 contributes to “Physics Now” (by C14; <http://web.phys.ksu.edu/ICPE/>) and prepares newsletter bulletin COSNEWS (<http://www.iupap.org/commissions/c4/cosnews/cosnews.html>)

Nuclear Physics (C12)

Don-Olof Riska presented the activities of Commission on Nuclear Physics (C12). Recently the Committee had its meetings on June 30, 2004 in Goeteborg and plans for a meeting on 5 August, 2005 in Budapest.

The C12 Committee has created a Committee on Cooperation in Nuclear Physics (kind of “nuclear icfa”), chaired by A.W. Thomas of TJNAF, who surveys the facilities and make recommendations:

- Radioactive Ion Beam Facilities: J-PARC (Tokai, Japan), FAIR (GSI Darmstadt, Germany), RIA (Argonne National Laboratory, USA), funded and used mainly locally
- Relativistic Heavy Ion Beam Facilities: RHIC (at BNL), LHC/ ALICE (at CERN)

- Electron Beam Facilities: TJNAF (“Jefferson Lab”)
- Kaon Factories
- Underground Laboratories

Concerning the conferences, which obtained or requested C12 support, he listed:

- PANIC’05, Santa Fe (USA), October 2005
- Few-Body 18, Santos Guarujá (Brazil), August 2006
- Nucleus-nucleus, Rio de Janeiro (Brazil), September 2006
- SPIN2006, Kyoto (Japan), October 2006
- Nuclei in the Cosmos, CERN, June 2006
- RNB7, Cortina d’Ampezzo (Italy), July 2006
- INPC’07, Japan, 2007
- Baryons’07, Korea, 2007

8. C11 membership

Vera Lüth reminded the C11 membership rules:

- expertise covering the main areas of particle physics research and broad geographical representation
- the total number of delegates is 13 (with a term of 3 years, which can be renewed once; vice-president should be a representative from industry)
- every 3 years members are nominated by the National Liaison Committees or by the Commission Chairs (deadline Sept. 1) .

The discussion developed concerning the future membership of C11 and its chairing. Several proposed names were discussed:

- Chen Hesheng (China) was proposed, however he is a member of ICFA, and therefore a new candidate is needed (W. Li from IHEP, Beijing, one of the organizers of ICHEP04, was suggested),
- Russia proposes two candidates, while only one is acceptable; it was suggested to propose A.G. Olchevski,

- there were three names proposed by smaller countries: M. Aguilar (Spain), D. Horvath (Hungary) and M. Jezabek (Poland); after some discussion it was suggested to propose M. Aguilar,
- W. Carithers (chair of the Division of Particles & Fields of the APS) and P. McBride (a woman) were proposed from USA,
- From UK two names were considered: R. Barlow (organizing EPS07) and D. Saxon,
- The candidates from “rest of the world” were discussed, in view of larger involvement of these countries in the field of particle physics. It was considered that rotation of C11 members from these countries, after 3 years, could improve communication and strengthen their interests and involvement; few new names were discussed, e.g. G. Taylor from Australia and, (*ask G. Wormser....*) from Morocco.

V. Luth proposed as a candidate for C11 chair Gregor Herten and this proposal was endorsed by the C11 members. Gregor proposed Taku Yamanaka as candidate for secretary. Both candidates are prepared to accept the appointment (which will be made by the IUPAP General Assembly in November).

The rule that the vice-chair should be a representative from industry was discussed and the conclusion was that this requirement should be waived (removed).

Action on C11 members:

Comment to V. Lüth on candidates for C11 membership, by the end of July 2005.

Action on V. Lüth:

Nominate to IUPAP, by 1 September 2005, candidates for C11 members and the chair, vice chair and secretary

9. Report from the Authorship Working Group

Vera Lüth repeated briefly the main arguments for addressing the issue; the general feeling is that the present author lists:

- they do not appropriately credit those who have contributed most
- they include names of many who are not very knowledgeable about the contents of the

publication

- they do not allow others to identify those most knowledgeable
- they lead to absurd publication and citation records.

After the preliminary discussion and a dedicated working meetings organized by V. Lüth during the ICHEP04 conference, in which representatives of large collaborations and C11 participated, a C11 Working Group has been formed with the charge to examine situation, explore alternate solutions and formulate guidelines (the members of this WG are: H. Aihara, L. Foa, J. Chauveau, D. Denisov, H-A. Gustafsson, G. Harten, M. Klein, V. Luth (chair), P. Wells, J. Sandweiss, S. Stapnes, D. Whiteson and T. Yamanaka).

An interim report of this WG has been prepared and distributed to the C11 members. V. Luth has introduced its content and a discussion followed:

- example of Belle experiment, based on a voluntary sign-up to the author list (the total number of authors was reduced by ~50%) and with principal authors listed first,
- is there interest of LHC collaboration to change present practices? – interest maybe, however it appears that the collaborations are not ready to introduce changes now....
- importance of “physics notes” signed by a few, in addition to publications signed by all members of the collaborations is not fully recognized in the report and should be added.

V. Luth also presented an outline of a “questionnaire”, which would address the main points and which could be distributed among the members of big collaborations.

What next? – suggestions included:

- the questionnaire on authorship should be finalized (a question on “physics notes” should be added) and distributed to large collaborations,
- send the full report to leaders of collaboration and major HEP laboratories for distribution and
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At the end C11 decided that findings and suggestions of the WG on Authorship should be presented briefly by V. Luth in her talk at LP05.

Action on V. Lüth:

Transfer feedback from C11 discussion to the Working Group on Authorship.

Action on V. Lüth:

Provide in C11 presentation at LP05 a brief information on findings and suggestions of the C11 Working Group on Authorship.

10. AOB

None.

Recommendations

1.05 *Recommendation to the future C11 Committee:*

Award medals/ prizes for outstanding scientific achievement.

Nominate a C11 liaison to C4 committee.

Consider publication of a C11 newsletter.

2.05 *Recommendation to the future LP organizers:*

Following an example of LP03 at Fermilab, organize a meeting of “young physicists” at the conference and extend the poster sessions

3.05 *Recommendation to the organizers of future LP and ICHEP conferences:*

To improve the conference participation, sent several reminders to the physics community ahead of the meetings.

Actions

1.05 *Action on V. Lüth:*

Send a letter to the proponents of ICHEP08 in Philadelphia, that their proposal has been discussed and approved by C11.

2.05 *Action on C11 members:*

Comment to V. Lüth on candidates for C11 membership, by the end of July 2005.

- 3.05 *Action on V. Lüth:*
 Provide to IUPAP, by 1 September 2005, the information on candidates for C11 members and the chair.
- 4.05 *Action on V. Lüth:*
 Transfer feedback from C11 discussion to the Working Group on Authorship.
- 5.05 *Action on V. Lüth:*
 Provide in C11 presentation at LP05 a brief information on findings and suggestions of the C11 Working Group on Authorship.

Draft by M. Turala

Additions/ corrections by V. Lüth